

ABSTRACT

[Para 22] This Invention consists in a device that is added to existing roads/infrastructures that would transform the loss of potential energy of weights, vehicles, cars or trucks (' vehicles ') going down a hill into a rotation and ultimately, in electrical energy. This transformation is made by converting linear movement with moving road segments, that create discrete strokes coupled to a crankshaft, thus, creating a rotation in discrete steps. This rotation could be used for generation of electricity or any other useful works. It is possible to do that by adding modules of bridge to existing roads, as you can see in Figures 1, 2 and 3. This device is external to the vehicles, so that there are no requirements to store the electrical energy as it can be sent into the grid anywhere.